

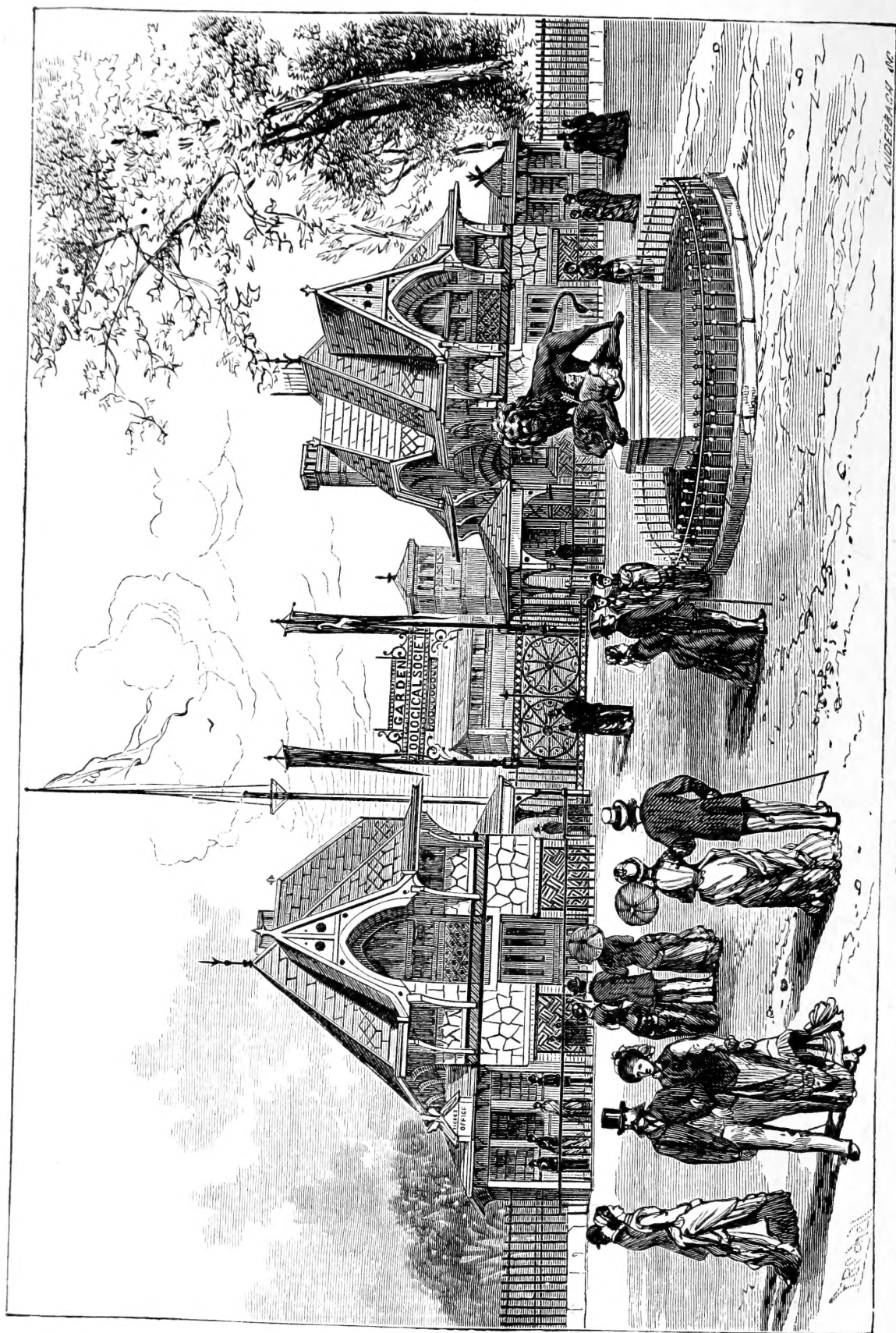
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GIRARD AVENUE ENTRANCE.

LAUDERBACK SC.

THE  
SIXTH ANNUAL REPORT  
OF THE  
BOARD OF DIRECTORS  
OF THE  
ZOOLOGICAL SOCIETY  
OF PHILADELPHIA.

(Incorporated March 21, 1859.)

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READ AT THE ANNUAL MEETING OF THE MEMBERS AND LOAN-  
HOLDERS OF THE SOCIETY,

APRIL 25, 1878.

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PHILADELPHIA :

1878.



THE  
ZOOLOGICAL SOCIETY & PHILADELPHIA

OFFICE, FAIRMOUNT PARK.

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OFFICERS FOR THE YEAR ENDING APRIL 24, 1879.

---

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VICE-PRESIDENTS,

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GEORGE W. CHILDS.

CORRESPONDING SECRETARY.

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PROF. JOSEPH LEIDY.

ACTUARY,

CHARLES L. JEFFERSON.

SUPERINTENDENT OF THE GARDEN.

ARTHUR E. BROWN.

SOLICITORS,

S. WAGNER, Jr.

W. W. MONTGOMERY.

# REPORT

OF THE

## BOARD OF DIRECTORS.

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*Philadelphia, April 25th, 1878.*

The Board of Directors of the Zoological Society of Philadelphia submit to the members and loan-certificate holders, this, their sixth annual report, of the business and operations of the Society, from 1st of March, 1877, to 1st of March, 1878.

### MEMBERS.

The number of members of the Society, on the 1st of March, 1878, was:—

Annual members, . . . . .	747
Life members, . . . . .	188
Corresponding members, . . . . .	9
Honorary members, . . . . .	16

Total members (exclusive of loan-holders),	960
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Decrease from preceding year of 27 Annual members, caused by three deaths and twenty-four resignations.

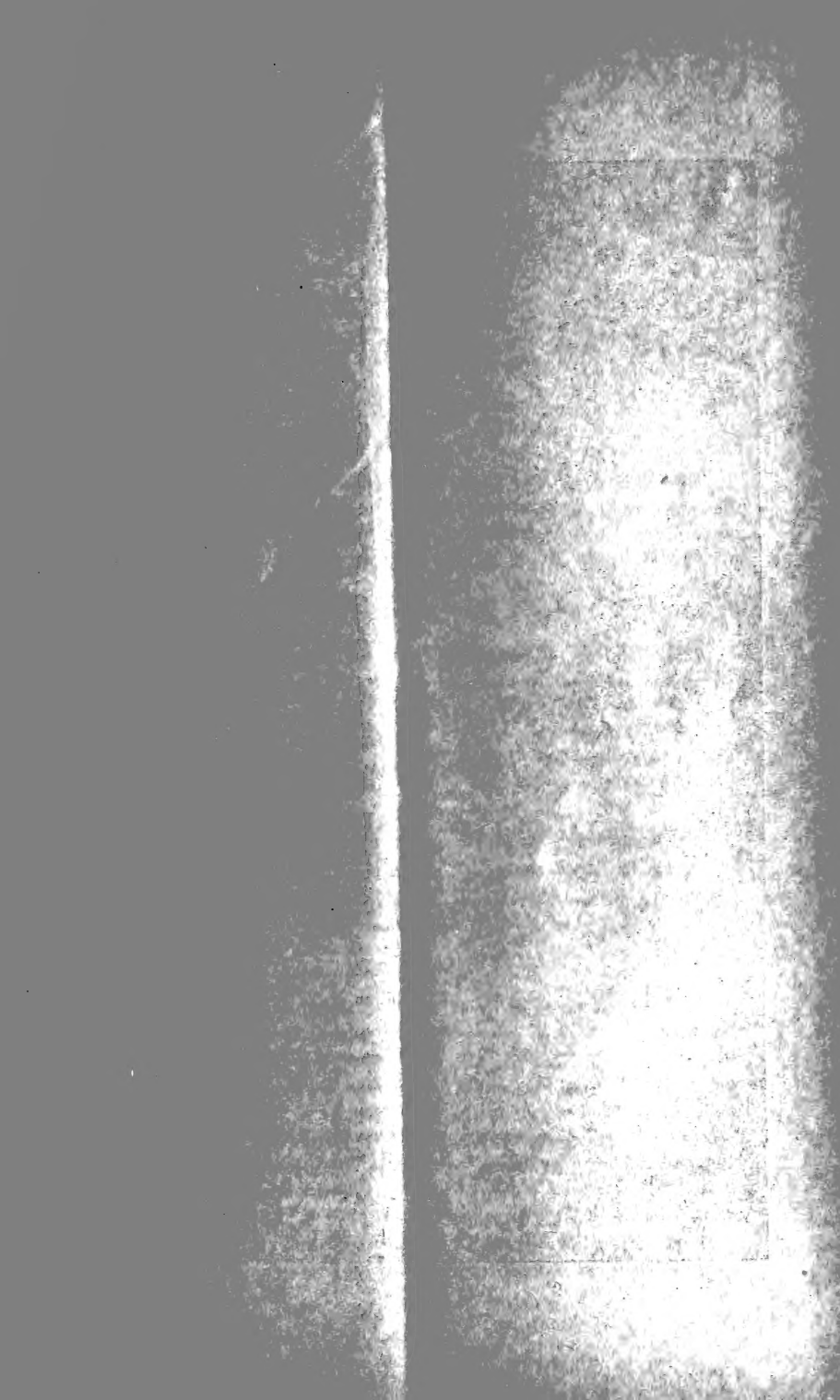
The number of loan-holders is 502.

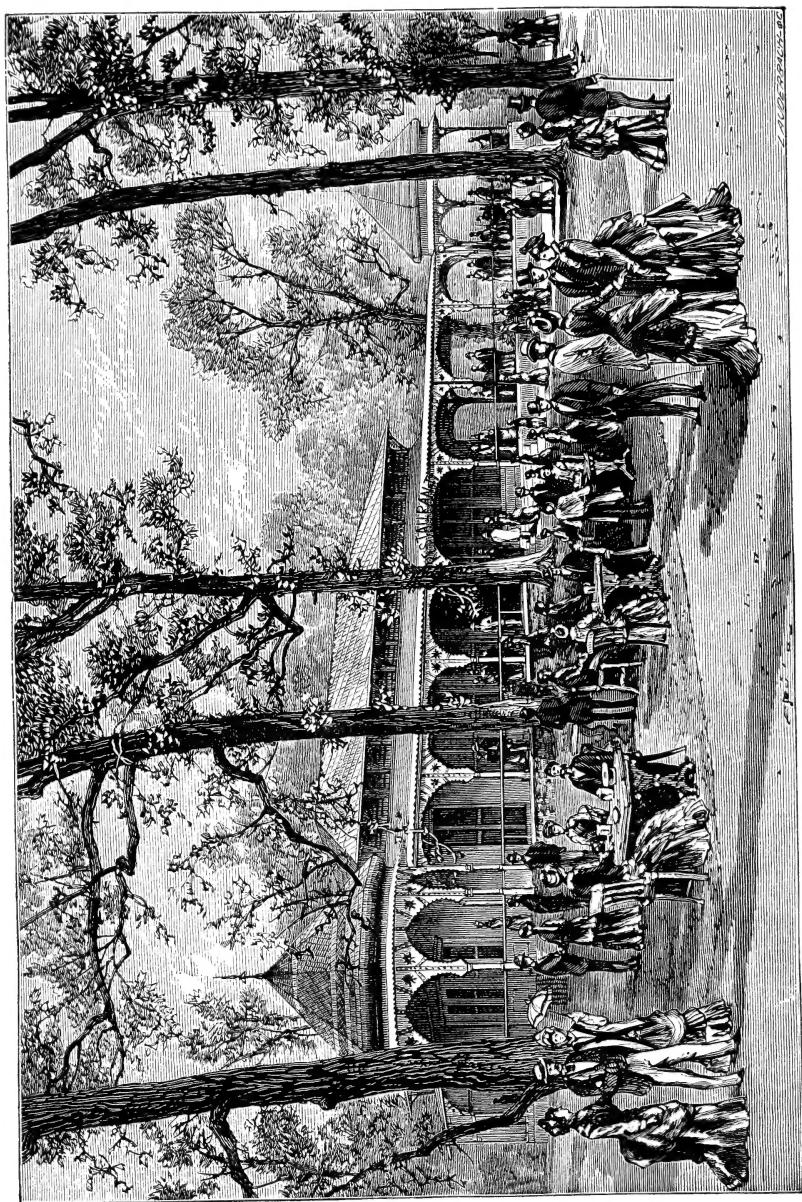
### VISITORS.

As was pre-figured in our last Report, a very material reduction has taken place in the number of visitors to our Garden. A reduction, large not only in comparison with that of the preceding year, the Centennial, but large in comparison with former years of the Society's existence. This is fairly attributable to the reaction from the excitement and expense of the preceding year, and also to the increased stringency of business. The total receipts at the gates during the year were \$39,555.50, and the number of visitors, 203,773.

The following tables show the number of admissions and gate receipts in detail for the past year:—







Adults, (paying 25 cents at gates), . .	142,820
Children, ( " 10 " " " ) . .	35,892
Members, (including life and annual, members, loan-holders' annual and complimentary annual tickets), . .	5,955
Loan-holder's tickets, (single), . .	15,512
Free admissions, charitable institutions, donor's tickets, &c., . . . .	2,300
Package tickets, . . . . .	1,254
Tickets sold by local agents, (1875-6), received, . . . . .	40
Total visitors, . . . . .	203,773
Total receipts, . . . . .	39,555.50
Less counterfeits received, \$2.25 . . . . .	
Tickets sold, 1876-7, 5.30 . . . . .	7.55
Total net gate receipts, . . . . .	<u>\$39,547.95</u>
Average daily admission, . . . . .	563
Average daily receipts from admissions, . . . . .	\$108.37

*Monthly Record of Visitors for 1877-78, with the corresponding accounts of prior years.*

Month.	1874-75.	1875-76.	1876-77.	1877-78.	Comparison with 1876-77.
March, . . . . .		8,493	12,607	5,592	Decrease, 7,015
April, . . . . .		21,377	25,573	14,756	" 10,817
May, . . . . .		43,396	32,952	21,296	" 11,656
June, . . . . .		49,981	47,574	19,498	" 28,076
July, . . . . .	54,399	53,730	50,377	26,172	" 24,205
August, . . . . .	61,128	64,501	67,318	30,016	" 37,302
September, . . . . .	34,420	57,197	122,586	32,259	" 90,327
October, . . . . .	31,374	52,426	207,306	22,816	" 174,490
November, . . . . .	16,383	19,981	69,980	11,576	" 78,404
December, . . . . .	8,519	15,058	7,721	8,915	Increase, 1,194
January, . . . . .	12,434	19,887	7,207	5,984	Decrease, 1,223
February, . . . . .	8,900	13,749	6,094	4,893	" 1,201
	227,557	419,776	657,295	203,773	Decrease, 453,522

The greatest number of visitors on any one day, was on Wednesday, July 4th, 1877, 5,424.

Average daily admissions, 1874-75, . . . . .	936
" " " 1875-76, . . . . .	1,150

Average daily admissions, 1876-77, . . . 1,801  
 " " " 1877-78, . . . 563

*Monthly Record of Receipts from admissions for 1877-8, with the corresponding accounts of prior years.*

Month.	1874-75.	1875-6.	1876-7.	1877-8.	Comp'n with 1876-7.
March, . . . . .	\$1,763 78	\$2,716 75	\$1,072 60	Dec.,	\$1,644 15
April, . . . . .	4,507 11	5,337 40	2,913 95	"	2,423 45
May, . . . . .	9,100 79	7,047 90	4,156 65	"	2,891 25
June, . . . . .	10,357 46	10,531 15	3,832 00	"	6,699 15
July, . . . . .	\$11,601 45	11,350 35	11,356 40	"	6,238 25
August, . . . . .	13,147 40	13,505 36	15,203 13	"	9,371 88
September, . . . . .	7,360 90	12,131 83	28,949 35	"	22,488 80
October, . . . . .	6,447 60	11,083 16	49,529 80	"	44,987 40
November, . . . . .	3,305 85	4,148 79	16,471 55	"	14,417 00
December, . . . . .	1,790 95	3,141 90	1,425 75	Inc.,	227 60
January, . . . . .	2,492 04	4,130 08	1,308 60	990 75	Dec., 317 85
February, . . . . .	1,755 46	2,763 50	1,182 85	929 30	" 253 55
	\$47,901 65	\$87,984 11	\$151,060 63	\$39,555 50	Dec., \$111,505 13

The largest amount of receipts at the gates on any one day, was on Wednesday, July 4th, 1877, . . . \$1,159.30

Average daily receipts from admissions, 1875-5, 197.13  
 " " " " " 1875-6, 241.05  
 " " " " " 1876-7, 413.86  
 " " " " " 1877-8, 108.37

*Total Receipts on the several days of the week, and their respective averages for 1877-8.*

DAYS.	TOTAL RECT'S.	AVERAGE.
Sunday, . . . . .	\$16,979 95	\$326 56
Wednesday, . . . . .	4,782 70	91 97
Saturday, . . . . .	4,199 85	80 77
Thursday, . . . . .	3,921 65	73 99
Monday, . . . . .	3,496 90	67 25
Tuesday, . . . . .	3,285 70	63 19
Friday, . . . . .	2,888 75	55 55
	\$39,555 50	*\$108 37

\*Daily average for the year.

These figures are valuable as showing, beyond a doubt, the capacity of the society, under even exceptionally depressing circumstances, to maintain itself and to warrant every hope of further development. To remove, however, the fortunes of the society from the somewhat precarious condition which must always attend a support, based entirely on receipts from admissions, it is the desire of the Board to establish a permanent fund, which shall be securely invested, and the interest of which, alone shall be applied to the wants of the society. The Zoological Garden of London, derives a large part of its revenue from interest on bequests and legacies, and it is believed that, the attention of those having the means being directed in this channel, many intending testators will find this society a proper recipient of their bounty. To this end, the Board has recommended to the members the passage of a resolution, establishing all bequests and devises to the society, as a trust fund, of which the interest only (unless otherwise directed by the donor), shall be used. During the past year, Mr. John L. Neill has left the society a handsome legacy, which will come into its possession at the death of a life tenant. The necessity of the erection of such a fund, is more apparent in view of the repeated attempts on the part of a small section of this community to close the garden on Sundays. The experience of the Board has convinced them, that the passage of any law preventing the society from receiving pay on Sunday, would result not merely in the closing of it on that day, but in its complete destruction. In the absence of any state or municipal subvention, which cannot be expected, and of any permanent endowment, which it will take many years to build up, the garden and collection of the society cannot be maintained without the monies obtained on Sundays, which, in the past year amounted to  $42\frac{9}{10}$  per cent. of the whole receipts. If the citizens of Philadelphia wish to retain, what is believed to be the very great benefits of this institution, every attempt of this nature must be so met, that the Legislature cannot be mistaken in ascertaining what are, without doubt, the opinions of the large majority of this community.

## IMPROVEMENTS.

During the past year the Board have been unable to lay out and improve any larger area of the garden; and they have confined themselves to keeping in good repair, the

walks, buildings, etc., already constructed. The house for the hay-eating animals has been finished, and meets the wants for which it was designed.

## FINANCES.

The financial condition of the society is exhibited by the following figures, and the Treasurer's statement and balance sheet, in Appendix A:—

## INCOME AND EXPENDITURES.

For the fiscal year ending March 1st, 1878.

### INCOME.

Members Initiation Fees and Dues, . . . . .	\$ 1,000.00	
Admission Receipts, . . . . .	39,547.95	
Rents at Garden, . . . . .	4,666.66	
Profit on sale of Guides, . . . . .	42.29	
Sundry Receipts, . . . . .	290.90	
		<u>\$45,547.80</u>

### EXPENDITURES.

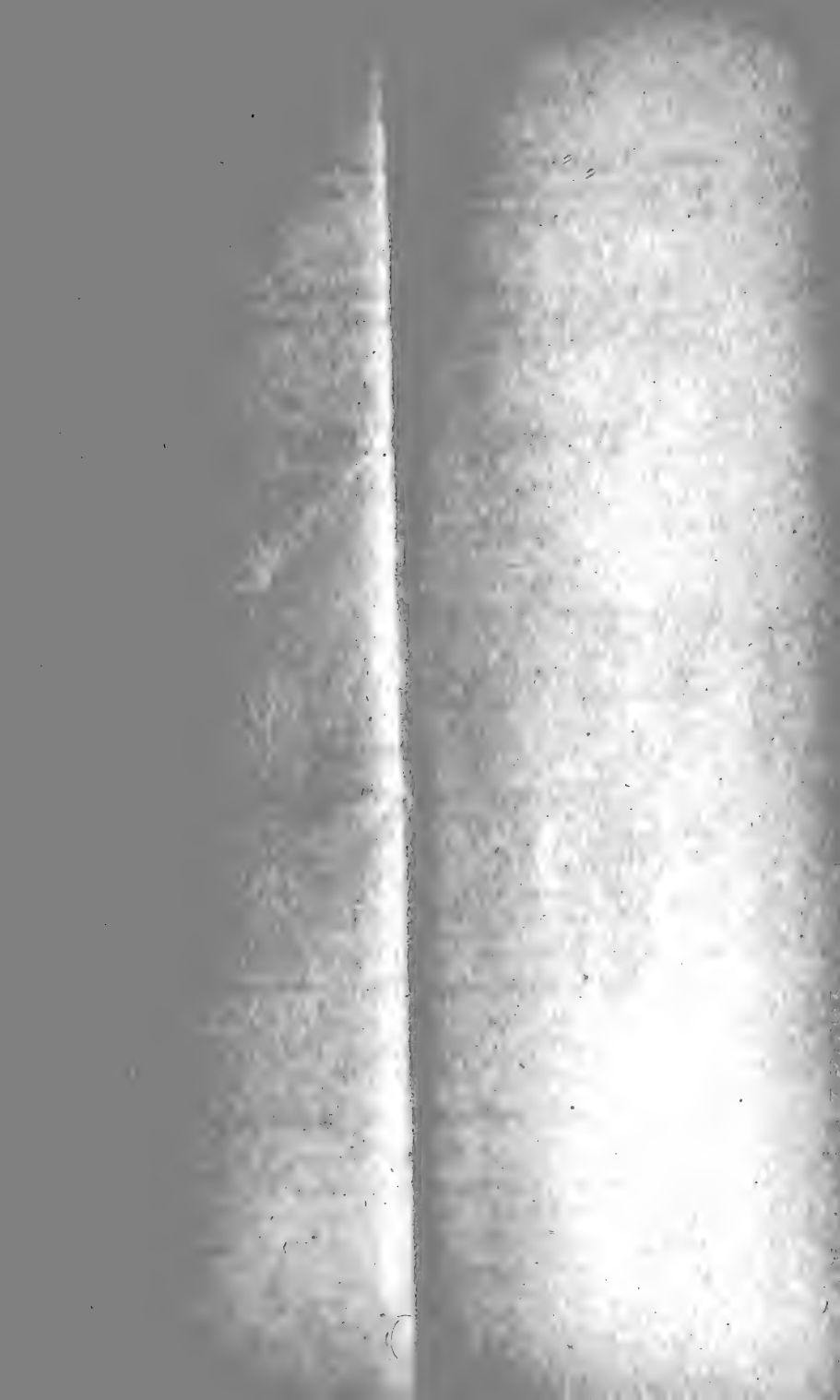
(Exclusive of Permanent Improvements, &c.)		
Salaries, . . . . .	\$20,416.22	
Office expenses, . . . . .	1,732.80	
General expenses, . . . . .	21,936.15	
		<u>44,085.17</u>
Estimated loss on Animals, . . . . .	2,215.80	
* Interest account, . . . . .	17,717.87	64,018.84
		<u>\$18,471.04</u>
Balance to Dr. of Profit and Loss for the year,		\$18,471.04
* This item is for interest earned during the fiscal year ending March 1st, 1877.		

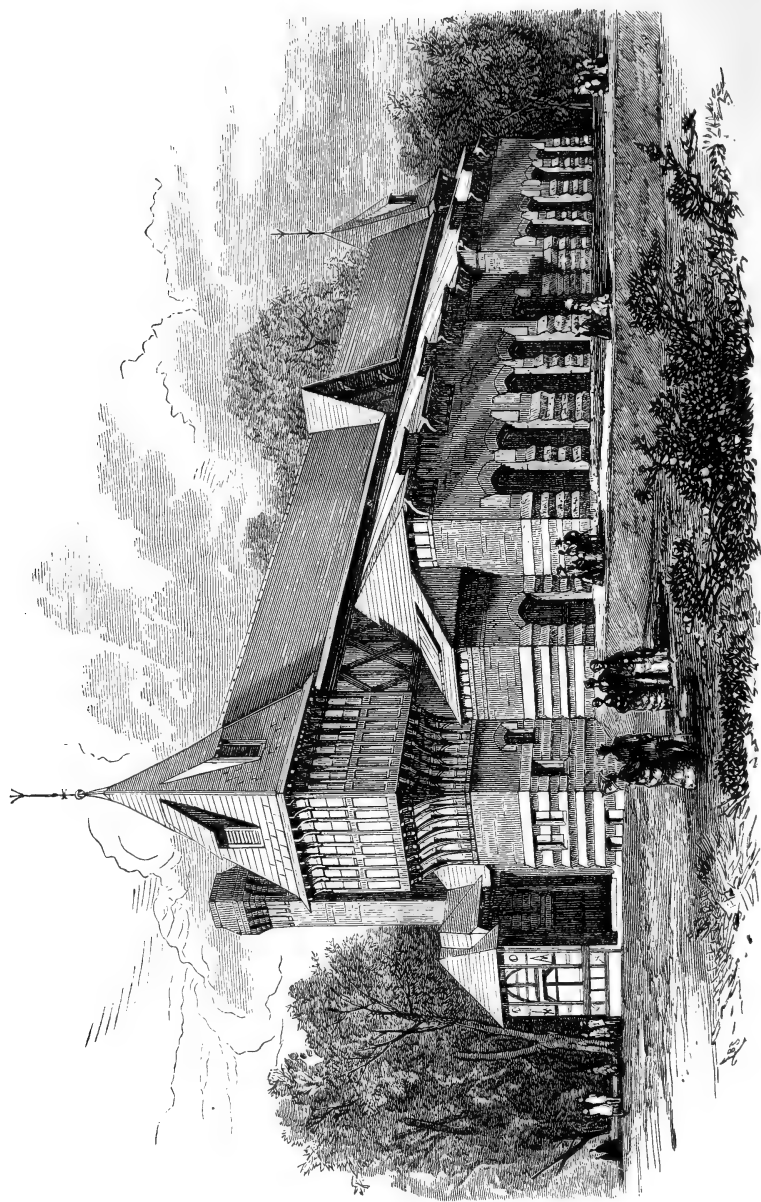
## CAPITAL.

Receipts and Expenditures for year ending March 1st, 1878.

### RECEIPTS.

Amount returned to Society on account of Thirty-Fifth Street Drive, . . . . .	\$1,850.00	
Time warrants, . . . . .	4,500.00	
Temporary Loans, . . . . .	16,000.00	
		<u>\$22,350</u>





ELEPHANT HOUSE.



## EXPENDITURES.

Permanent improvements and animals per items, in Treasurer's Statement. (Appendix A.)	26,614.99	
Less amount charged Profit and Loss for loss this year on animals, . . . . .	2,215.80	
Balance, (being excess of investments over re- ceipts of capital, and provided from Profit and Loss,) . . . . .		2,049.19
	<hr/>	<hr/>
	\$24,399.19	\$24,399.19

The coming year will, it is believed, show a considerable diminution in the expenses of maintainance, the result of economies introduced by the Board, viz: the reduction of the number of employees, and their salaries, the discontinuance of the City office and the feeding of the Carnivora on horse meat. The latter item alone being a saving of over 80 per cent. in the bills for meat.

## MENAGERIE.

The report of General Superintendent, Appendix B, shows the condition of the menagerie, and the incidents of the year. The board renews its thanks to railroad and transportation companies for many services.

By order of the Board.

JOHN SAMUEL,

*Secretary.*

# APPENDIX A.

## TREASURER'S STATEMENT.

March 1st, 1877, to March 1st, 1878.

### DR.

To Balance on hand March 1st, 1877,	\$21,896.29
" Returned Society acct. 35th Street Drive,	1,850.00
" Time Warrants,	4,500.00
" Temporary Loans,	16,000.00
" Members' Initiation Fees and Dues,	\$1,000.00
" Admission Receipts,	39,547.95
" Rents at Garden,	4,666.66
" Profit on Sale of Guides,	42.29
" Sundries,	290.90
Transferred to Cr. of Profit and Loss,	45,547.80
	<u>\$89,794.09</u>

### CR.

#### By Warrants paid for:

Salaries,	20,416.22
Office Expenses,	1,732.80
Subsistence,	12,604.86
Advertising,	3,207.81
Fuel and Light,	1,376.40
Printing,	349.05
Expressage,	339.25
Telegraph Line,	350.95
Repairs,	167.28
Extra Labor and Jobbing,	1,238.02
Hardware and Tools,	163.11
Lumber,	170.66
Insurance,	401.52
Lectures,	356.22
Sundry Expenses,	1,211.02

Maintenance, &c., trans. to Dr. of Profit and Loss,	\$44,085.17
Purchase of Animals,	3,773.80
Polar Bear Pits,	694.90
Penn Mansion,	68.00
Gate Houses,	570.36

Amount carried forward, 5,107.06 44,085.17

Amount carried forward,	5,107.06	44,085.17
Walks, Roads and Grading,	1,451.29	
Green Houses, . . . . .	26.40	
Horticulture, . . . . .	684.24	
Signs, . . . . .	16.40	
Seal Ponds, . . . . .	35.00	
Water Supply and Drainage, . . . . .	476.20	
Deer House, . . . . .	13,241.17	
Permanent Enclosure. . . . .	5,577.23	
Total Permanent Improvements and Animals, . . . . .		26,614.99
Interest, Discounts, &c., . . . . .		17,717.87
Balance on hand March 1st, 1878, . . . . .		1,376.06
		<u>\$89,794.09</u>



## BALANCE SHEET.

Zoological Society, March 1st, 1878.

DR.

CR.

Cash,	\$ 1,376 06	Loan,	\$ 300,000 00
Water Supply and Drainage,	11,174 08	Donations,	10,225 14
Animal Account.	57,223 00	Life Members,	9,455 00
Aviaries,	10,257 04	Time Warrants,	4,500 00
Bear Pits,	6,691 09	Temporary Loans,	16,000 00
Monkey House,	8,343 99	Profit and Loss,	88,841 21
Cages,	4,960 40		
Vulcanized Walks,	33,292 66		
Fencing,	5,603 94		
Deer Park and Enclosure,	3,903 75		
Prairie Dog Enclosure,	937 52		
Penn Mansion,	1,615 66		
Gate Houses,	12,321 27		
Buffalo House,	1,572 78		
Horticulture,	5,616 20		
Lake,	10,997 36		
Walks, Roads and Grading,	74,037 26		
Houses for Sundry Animals,	6,720 79		
Carnivora House,	58,566 82		
Green Houses,	4,783 82		
Skating House,	1,378 41		
Barn,	3,744 34		
Elephant House,	38,440 42		
Signs,	560 66		
Seal Ponds,	9,599 73		
Carriage Sheds,	4,078 80		
Restaurant,	15,096 79		
Settees and Chairs,	2,832 00		
Photograph Stand,	736 00		
New Aviary,	416 50		
Deer House,	21,518 17		
Reptile House,	1,746 31		
Camel House,	933 50		
Music Stand,	1,667 00		
Permanent Enclosure,	6,277 23		

## APPENDIX B.

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*To the President and Board of Directors of  
The Zoological Society:*

GENTLEMEN :—I beg leave to submit to you my report of the condition of the Menagerie of the Society, during the year which closed on the 28th of February last.

During this period, there have been added to the collection 237 Mammals, 149 Birds, 109 Batrachians and 192 Reptiles, making the total number of specimens now living in the garden:

434 Mammals, valued at . . .	\$52,731
453 Birds, valued at . . .	4,482
58 Batrachians, } valued at . . .	410
63 Reptiles, }	

Total 1,008	\$57,623
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Being a decrease in numbers of 65, and an increase in value of \$1,958, as compared with the statement of a year ago.

The new additions to the menagerie have been somewhat less numerous than in former years, for the reason that the collection already contains a large proportion of those species which are most readily to be obtained, and, although the field from which additions are yet to be made is practically inexhaustible, it is to be considered that any given number of species hereafter placed for the first time on exhibition in the garden, represents a much greater outlay of time in procuring, and money in purchasing, than an equal number of those which have hitherto been received.

Many of the additions made during the year, however, have been highly interesting for purposes of observation, both popular and scientific in its ends.

The most noteworthy arrivals in each month have been, in

## MARCH.

A single specimen of Richardson's *Spermophile*, or Gopher (*Spermophilus richardsonii*); one of the numerous small burrowing rodents, inhabiting the western part of the United States. This species having a range from Minnesota, westward to the Rocky Mountains.

On March 15th, a small Deer was received from Yucatan, which, owing to its youth, and the imperfect nature of its antlers, was not readily identified. It would seem, however, to be referable to *Cervus nemorivagus*, of F. Cuvier.

A large male Grizzly Bear (*Ursus horribilis*), was received in exchange for two American Black Bears, and makes a suitable mate for the female previously owned by the society. The new specimen is from California, where the Grizzly is believed to be somewhat larger, and of a darker color than those from the eastern slope of the Rocky Mountains.

## APRIL.

A perfect Albino of the Mule Deer (*Cervus macrotis*), from the western United States, was procured early in this month, but with the weakness of constitution common to albinos, it did not long survive its capture.

Two Rousette, or Indian Fruit Bats (*Pteropus medius*) were accidentally obtained from the captain of a merchant vessel, and have much interested visitors by their curious appearance.

A fine pair of young Pumas (*Felis concolor*), captured in Montana, and a Striped Hyena (*Hyaena striata*), imported from India, were also purchased during this month, and through the kindness of friends of the society, several specimens of the Hellbender (*Menopoma allegheniensis*), from the Allegheny River, were added to the list of Batrachians on exhibition.

## MAY.

On the fifth of May, a female Pig-tailed Macaque Monkey (*Macacus nemestrinus*), produced young in the garden. This being an extremely rare occurrence, it is much to be regretted that the young one lived but a short time after birth. Nine Striped Gophers (*Spermophilus tridecem-lineatus*), were also born in the garden.

A specimen of a somewhat rare Parrot (*Conurus luteus*), of Brazil and upper South America, was obtained towards the close of the month.

## JUNE.

A fine Siren (*Siren lacertina*), was placed in the increasing collection of the North American Batrachia, by the kind efforts of Dr. Manigault, of South Carolina, who has since forwarded another unusually large member of the same species. These animals are difficult to procure, but once being obtained, are kept alive with little trouble.

Two Tortoises from Guiana (*Testudo tabulata*); a species resembling, except in size, the enormous Tortoise of the Galapagos, and the White-eared Parrot (*Conurus leucotis*), from the same region, were also received in June.

## JULY.

Fifteen Common Seals (*Phoca vitulina*), reached the garden early in July. It is always a matter of much difficulty to induce these animals, when young, to feed on anything but live fish—a diet which is altogether too costly to indulge them with. Out of the whole number received, but two became accustomed to eating dead fish, and these are now in excellent condition.

Several collections of Reptiles were received from Florida, among which were the Chameleon (*Anolis principalis*); the Striped Lizard (*Onemidophorus sex-lineatus*); the Grey Lizard (*Sceloporus undulatus*); the Brown Lizard (*Eumeces fasciatus*); the Chicken Terrapin (*Chrysemys reticulata*) and a number of one of the most venomous of the North American Serpents, the Water Moccasin (*Ancistrodon piscivorus*). A White Ibis (*Ibis alba*), from the same locality was also received.

On the 7th of July, an unusual occurrence took place in the breeding of three Brown Coatis (*Nasua narica*), which have been successfully raised. This is remarkable, as the Coati, with the other plantigrades, more or less allied to the bears, rarely breeds in captivity.

## AUGUST.

A young Crocodile from the Lake of Maracaibo, was received and identified as *Crocodylus americanus*; this was shortly followed by a Cuban Tree Boa (*Epicrates angulifer*), and a Six-banded Armadillo (*Dasypus sex-cinctus*), from Brazil, which was for the first time placed in the collection.

The two Gillespie's Hair Seals (*Zalophus gillespii*), having died on the 21st of June, negotiations were at once entered into with a view to replacing them. A new lot was finally

procured at the San Miguel Islands, off the coast of lower California, and arrived at the garden on the 15th of August. They were six in number. One of them has since died, but the remainder have become acclimated with little difficulty, owing to the mildness of the winter, and are growing rapidly. In the shipment of Seals which came from San Francisco at this time, was a large female of the Morthern Sea Lion (*Eumetopias stelleri*), which was on exhibition at the garden for some days. Had it been in good health, the animal would have been added permanently to the collection, but it appeared to be out of condition when received, and in fact, died before it was removed.

Two of the curious Lizards known as the Glass Snake (*Opheosaurus ventralis*), from Florida, and a pair of Gopher Tortoises (*Testudo carolina*), from South Carolina, were presented to the Society, and a beautiful pair of Grey Parrots (*Psittacus erythacus*), from the west coast of Africa, were purchased during the month.

#### SEPTEMBER.

In September a large variety of Lizards and Serpents from the South-eastern and Gulf States were received, among which was a specimen of the richly colored and beautiful Rainbow Snake (*Abastor erythrogrammus*).

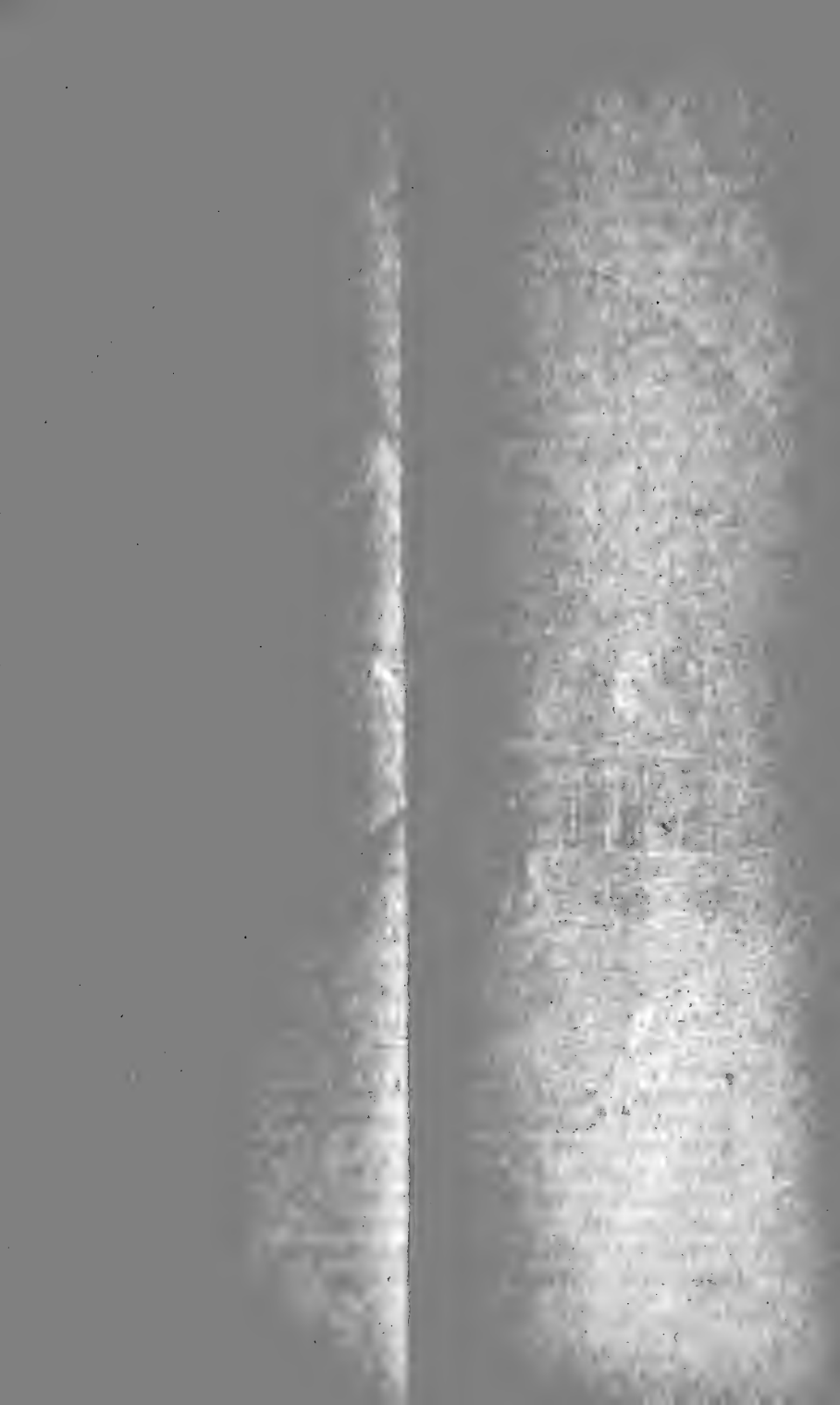
Thirty-one young serpents were bred in the garden from a female of the common Water Snake of the Middle States, (*Tropidonotus sipedon*). By dint of careful attention and great care in feeding, half a dozen of these have been kept alive to the present time.

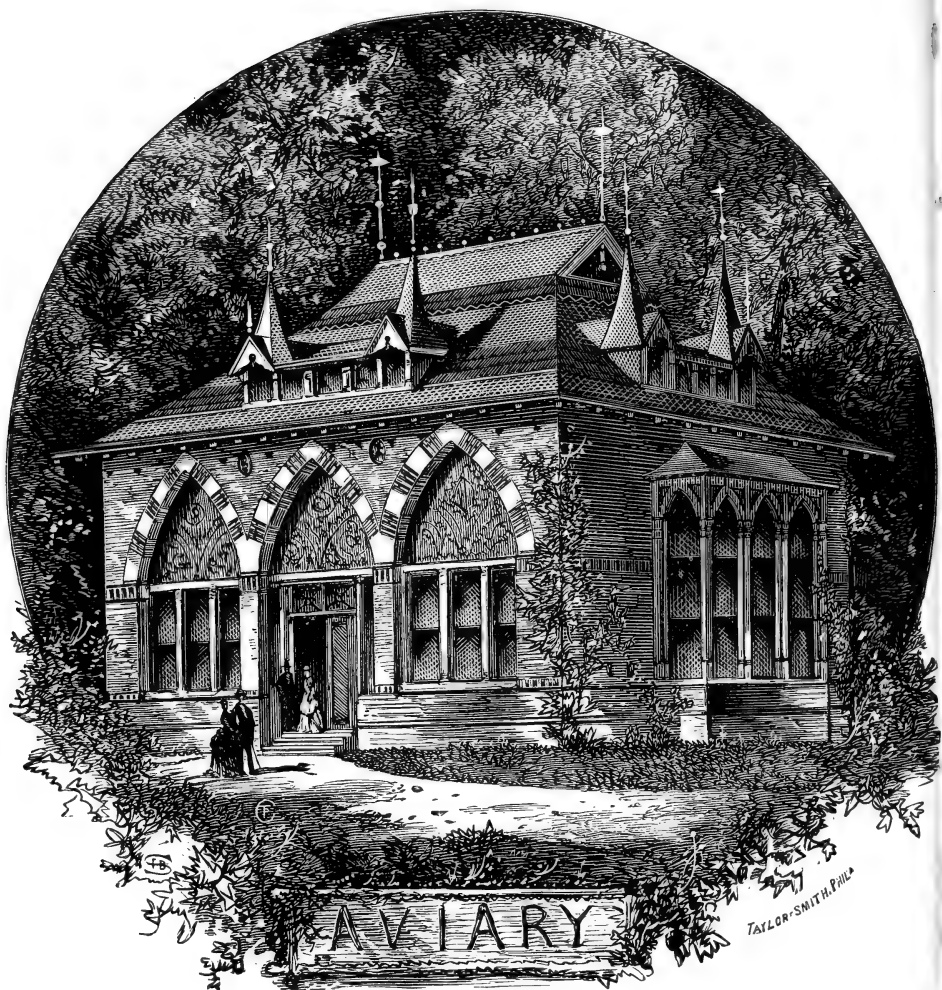
#### OCTOBER.

Early in the summer of last year, a male and female of the Black-headed or Yemen breed of sheep, were imported from Arabia, by George Wm. Bond, Esquire, of Boston, with the intention of presenting them to the Society. A lamb was born on the voyage, and the three animals were placed in the garden on the 8th of October. It is believed that these sheep crossed, several centuries ago, with the native sheep of Spain, and thus gave origin to the celebrated Merino breed. It is hoped that an opportunity may be afforded to test the influence of this stock upon some of our common races.

The acknowledgments of the Society are due to the Commissioners of Prospect Park, Brooklyn, for the liberal gift of







TAYLOR & SMITH, Phila.

a magnificent black, lop-eared Zebu, or Sacred Bull—in color and form one of the rarest of his race. He has become thoroughly domesticated at the Garden, and has attracted much attention.

Three Arctic Foxes (*Vulpes lagopus*), captured in Norway, were purchased from the captain of a trading vessel.

A specimen of the Little Black-headed Duck (*Fuligula affinis*) of North America, was also for the first time placed in the menagerie.

On the 8th of October, a young Beaver (*Castor fiber var canadensis*) made its first appearance in the Beaver Pond. It was apparently some six weeks old, and is the first of these animals which has been born in the garden.

#### NOVEMBER.

A numerous collection of birds was presented on the 15th of this month ;—among them was a pair of Cuban Trogons, (*Prionotelus temminurus*). These superb birds, so far as has been ascertained, are for the first time exhibited in a zoological collection. Although they are not uncommon in their native forests, the difficulty of inducing them to feed in captivity has heretofore prevented their domestication. They are among the most brilliant of the richly colored group to which they belong. A number of small Finches were also new to the collection.

A Duck Hawk (*Falco communis*), which flew on board of the steamer Pennsylvania, when three days out from port, was brought safely to land and was presented by Captain Harris, of that vessel.

#### DECEMBER.

An Alexandrine Parrakeet (*Palæornis alexandri*), from India ; two small North American Snakes (*Storeria dekayi* and *Storeria occipito-maculata*), with a Black-eared Marmoset (*Hapale pencillata*), from Brazil, were the new additions for this month. A Red Kangaroo (*Macropus rufus*), and 4 Dingos (*Canis dingo*), having been born in the Garden.

After the opening of the year 1878, the usual dullness of Winter set in, the only arrivals worthy of notice, being the receipt, on January 18th, of a pair of Chinese or Knobbed Geese (*Anser cygnoides*), presented by David Taggart, Esq., and the arrival from Africa, on February 6th, of a female Eland (*Oreas canna*), two years old, which has been procured

to mate the male previously in the Garden. An unusually fine pair of these noble animals are now in the possession of the Society.

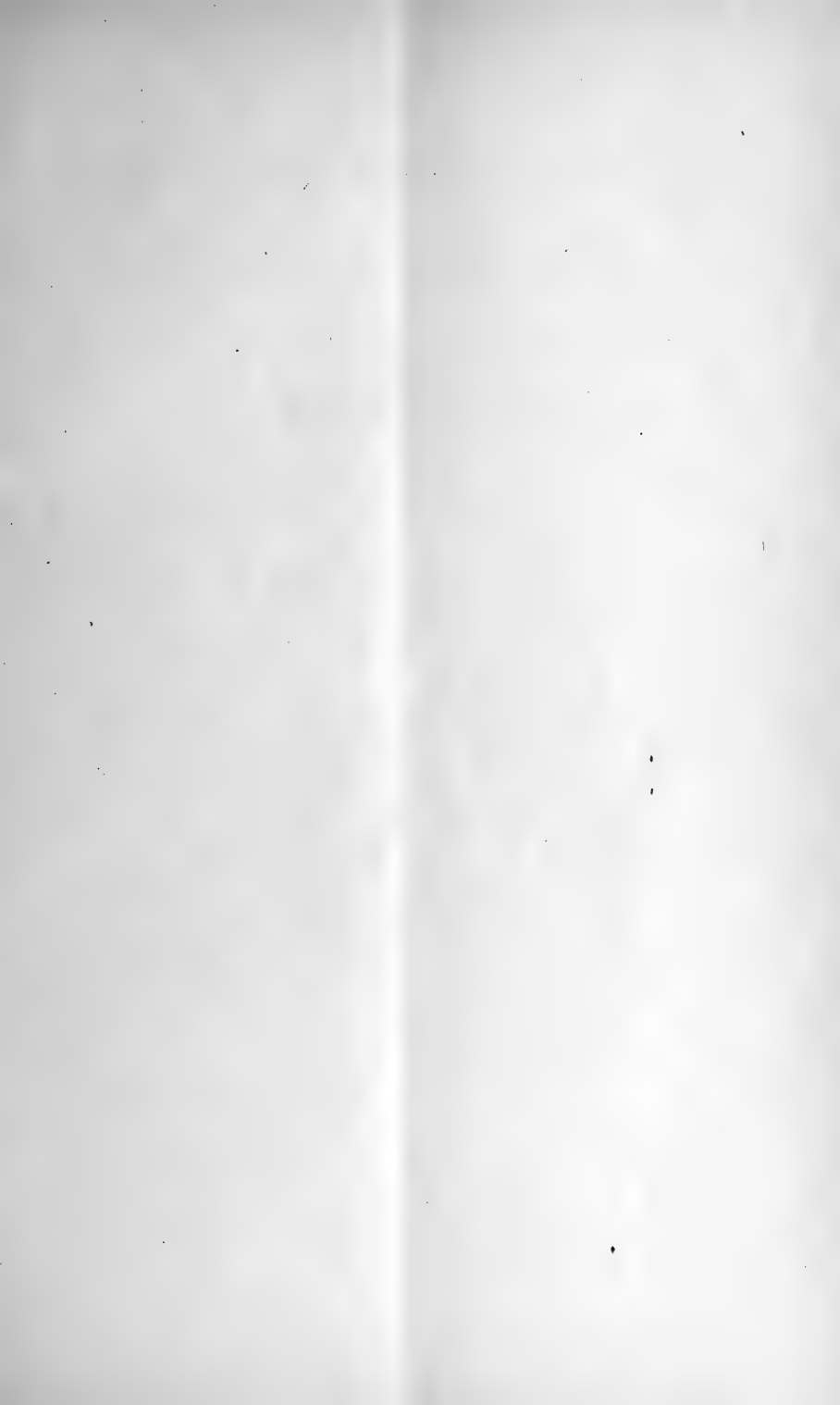
The collection of Reptiles and Batrachians has been considerably enlarged during the year, and there is a favorable prospect of large additions to this branch during the coming season.

The following animals were bred during the year:—

- 2 Macaque Monkeys (*Macacus nemestrinus*).
- 4 Common Leopards (*Felis pardus*).
- 2 Black Leopards (*Felis pardus var. melas*).
- 12 Dingos (*Canis dingo*).
- 3 Brown Coatis (*Nasua narica*).
- 2 Fournier's Capromys (*Capromys pilorides*).
- 1 Acouchy (*Dasyprocta acouchy*).
- 1 Beaver (*Castor fiber var. canadensis*).
- 9 Striped Gophers (*Spermophilus tridecem-lineatus*).
- 9 Prairie Dogs (*Cynomys ludovicianus*).
- 2 Virginia Deer (*Cervus virginianus*).
- 1 Savannah Deer (*Cervus savannarum*).
- 1 Zebu (*Bos indicus*).
- 1 Angora Goat (*Capra hircus var.*)
- 1 Yemen Sheep (*Ovis aries var.*)
- 1 Bactrian Camel (*Camelus bactrianus*).
- 2 Llamas (*Lama peruana*).
- 1 Red Kangaroo (*Macropus rufus*).
- 3 Kangaroo Rats (*Hypsiprymnus rufescens*).
- 2 Crested Grass Parrakeets (*Calopsitta novæ-hollandiæ*).
- 4 Common Pea Fowl (*Pavo cristata*).
- 32 Water Snakes (*Tropidonotus sipedon*).

The Winter House for Deer and Antelope, and the Polar Bear Pen, both of which were completed early in the year, have fully answered in all respects, to their requirements, and afford ample and healthful accommodations to the animals for which they were designed.

It seemed reasonable, at the beginning of the past season, to look forward to a considerable reduction in the receipts of the Society, both on account of the pressure of stagnant interests throughout the country, and also by reason of a very natural reaction from the excitement of the Centennial year. To meet this exigency, a number of economical reductions, have been made in current expenses with most satisfactory results.





The force of employees has been considerably lessened in numbers, without seriously impairing its efficiency, and the salaries of those remaining have, without exception, been reduced.

One of the principal items of the expense account has recently been diminished nearly eighty per cent. in amount, by the use of horse meat in feeding the carnivorous animals. The horses used, are purchased at very low prices, are slaughtered at the Garden, and the skin, bones and other refuse being disposed of by sale, the cost of meat appears to have been brought to the lowest possible figure. The change seems also to be beneficial in its results upon the animals—the effect of feeding them on meat freshly killed and full of blood, being excellent.

These measures of saving, with the moving of the actuary's office from Walnut Place to the Garden—a change attended with very little inconvenience to the business of the Society, have brought the daily cost of maintaining the Garden on its present basis down to about \$80.

On reviewing these facts, it will appear, that notwithstanding the necessity which has existed for economy, there is reason for the Society to congratulate itself upon the year through which it has just passed. The collection of animals is varied in character, and affords types of almost all orders of the four higher classes of *Vértebrates*;—the estimated loss for the year is about four per cent. on the value of the animals, a rate much lower than that of previous years, and which is believed to be as small a percentage of loss as has ever occurred in a garden of its character; and at the present time—the most trying season of the year—the collection is in a condition of health and vigor which it would be difficult to surpass. This result should be in part attributed to the extremely favorable mildness of all seasons of the year, but in greater measure, is due to the interest and fidelity which the employees of the Society have manifested in carrying out those measures which have been put in operation for its government.

I submit, with my report, a list of all animals which have been presented, purchased or born in the Garden during the year.

Respectfully,

ARTHUR E. BROWN,

*Superintendent.*

ZOOLOGICAL GARDEN, *March 1st*, 1878.

## APPENDIX C.

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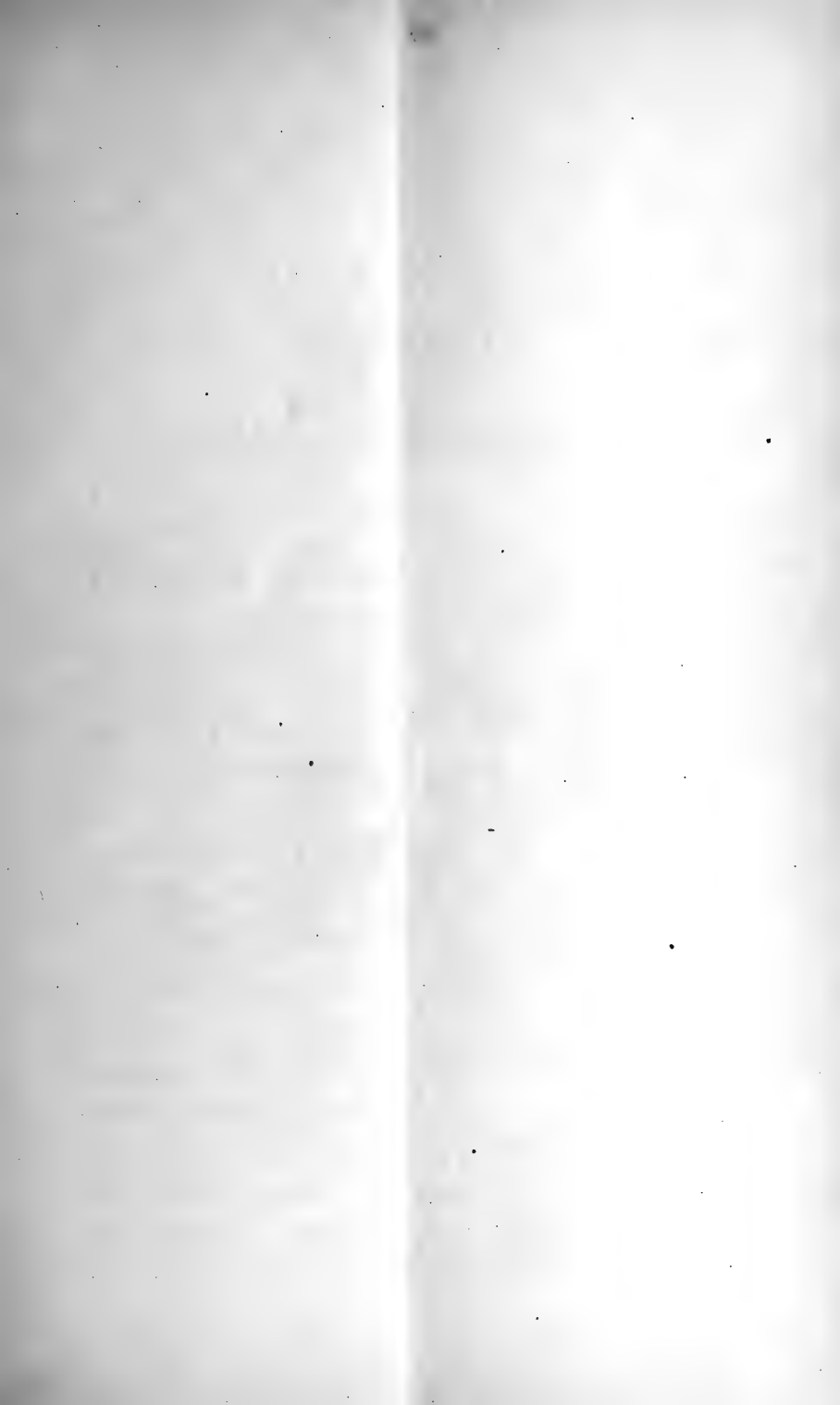
### LIST OF ADDITIONS TO THE SOCIETY'S MENAGERIE DURING THE YEAR ENDING FEBRUARY 1, 1878.

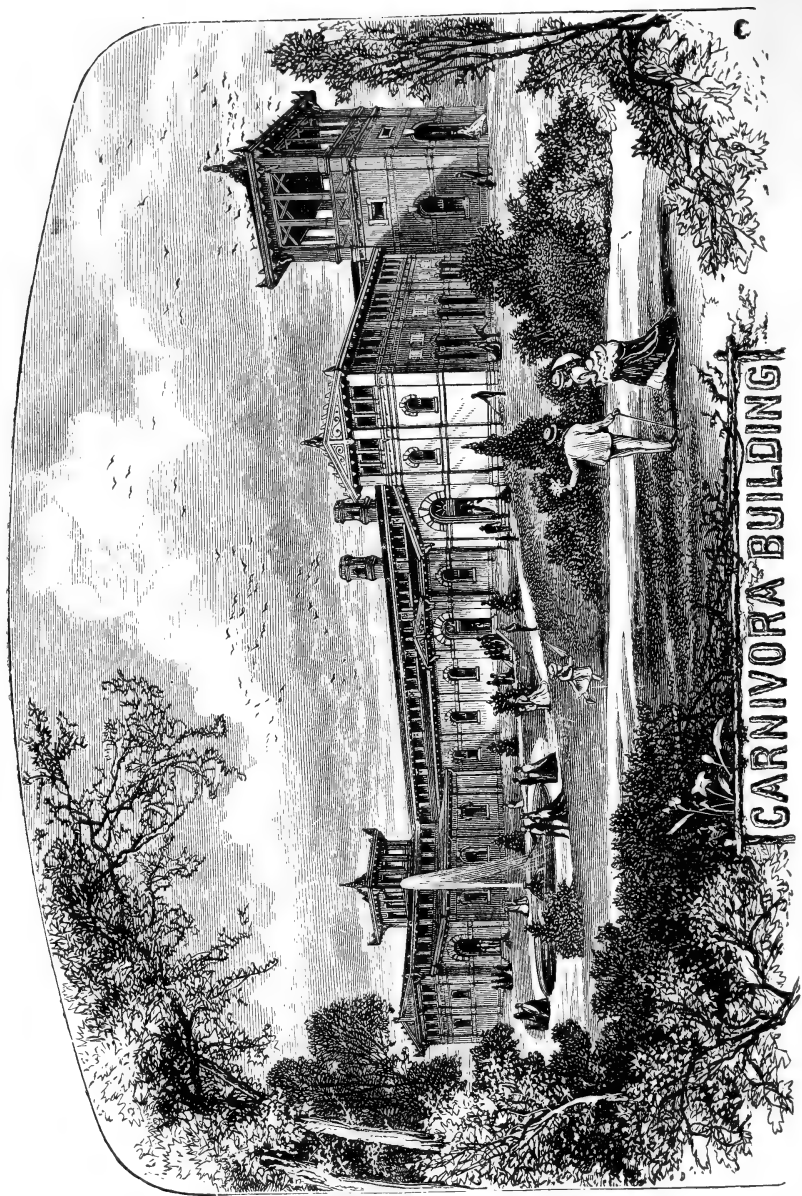
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1877.

- Mar. 1. 1 Zebu ♀ (*B. indicus*). Born in Garden.  
 2. 2 Starlings (*S. vulgaris*). Presented by Captain Jno. H. Mortimer, New York.  
 2. 1 Short-eared Owl (*B. palustris*). Presented.  
 4. 1 Canada Lynx (*L. canadensis*). Purchased.  
 6. 1 Robin (*T. migratorius*). Presented by Jos. Farrell, Branchtown, Philadelphia.  
 7. 1 Badger (*T. americana*). Purchased.  
 7. 1 Richardson's Gopher (*S. richardsonii*). Purchased.  
 8. 1 Raccoon (*P. lotor*). Presented by Robert Ursbruck, Philadelphia.  
 8. 2 Bald Eagles (*H. leucocephalus*). Presented by Wm. Williams, Berwick, Columbia Co., Pa.  
 13. 1 Snowy Owl (*N. nivea*).  
 15. 2 Beavers (*C. fiber* var. *canadensis*). Purchased.  
 15. 1 Acapulco Deer (*C. acapulcensis*). Presented by W. R. Cunningham, Philadelphia.  
 17. 3 Bald Eagles (*H. leucocephalus*). Presented by Hon. John R. French, U. S. Senate.  
     2 Bald Eagles (*H. leucocephalus*). Presented by Col. T. L. Casey, Washington, D. C.  
     2 Great-horned Owls (*B. virginianus*).  
 24. 2 Rabbits (*L. cuniculus*). Presented by Mrs. M. A. Jones, Philadelphia.  
 30. 1 Grizzly Bear (*U. horribilis*). Exchanged.  
     1 Capybara (*H. capybara*). Purchased.
- April 4. 1 Lamprey Eel (*A. unicolor*). Presented by L. D. Senat, Philadelphia.  
 6. 1 Albino Squirrel (*S. carolinensis*). Presented by Robert Shallen, Landisburg, Perry Co., Pa.  
 7. 1 Summer Duck (*A. sponsa*), ♂. Presented by Jos. Stubb, Sr, Philadelphia.  
     1 Alligator (*A. mississippiensis*). Presented by "The Snark," Philadelphia.  
 10. 2 White Rabbits (*L. cuniculus*). Presented by Dr. H. M. Perry, Philadelphia.  
     1 Albino Mule Deer (*C. macrotis*) ♀. Purchased.







CARNIVORA BUILDING

- Apr. 11. 2 Fruit Bats (*P. medius*). Purchased.  
 12. 2 Horned Toads (*P. cornutus*). Presented by Master Wilson L. Smith, Philadelphia.  
 16. 2 Young Panthers (*F. concolor*) ♂, ♀. Purchased.  
 17. 1 Small Alligator (*A. mississippiensis*). Presented by Miss McCready, Philadelphia.  
 20. 1 Acouchy (*D. acouchy*). Born in Garden.  
 21. 2 Short-eared Owls (*B. palustris*). Presented by F. F. de Crano, Philadelphia.  
 23. 2 Gt.-horned Owls (*B. virginianus*). Presented by Philip L. Dubois, Philadelphia.  
 24. 1 Angora Goat (*C. hircus*). Born in Garden.  
 25. 1 Red-tailed Hawk (*B. borealis*). Presented by Percival S. Peddrick, Philadelphia.  
 1 Striped Hyena (*H. striata*). Purchased.  
 1 King Snake (*O. getutus*). Presented by E. M. Harris, New-town, Md.  
 1 Hell Bender (*M. allegheniensis*). Presented by Dr. R. L. Walker, Mansfield, Allegheny Co., Pa.  
 1 Grey Rabbit (*L. cuniculus*). Presented by Mrs. Wogan, Philadelphia.  
 26. 1 Opossum (*D. virginianus*). Presented by F. Newhouse, Philadelphia.  
 27. 2 Striped Gophers (*S. tridecem-lineatus*). Presented by Charles V. Grant, Philadelphia.  
 28. 2 Capromys (*C. pilorides*). Born in Garden.  
 2 Parrakeet Cockatoos (*C. novæ-hollandæ*). Presented by F. W. Murphy, Philadelphia.
- May 1. 2 Hell Benders (*M. allegheniensis*). Presented by Francis Wistar, Duncannon, Pa.  
 2. 8 Summer Ducks (*A. spoua*). Purchased.  
 3. 1 Macaque Monkey (*M. cynomolgus*), ♂. Presented by Captain Wm. B. Mason, Bark "Hawthorne."  
 4. 6 Red Foxes (*V. fulvus*). Presented by the Smithsonian Institute, Washington, D. C.  
 5. 1 Pig-tail Macaque (*M. nemistrinus*). Born in Garden.  
 7. 1 Black Snake (*B. constrictor*). Presented by J. M. Thomas, Moorestown, N. J.  
 8. 1 Boa (*B. constrictor*). Presented by Dr. Thomas Biddle, Philadelphia.  
 11. 2 Rabbits (*L. cuniculus*). Presented by Jos. M. Wilson, Washington, D. C.  
 1 Opossum and 7 young (*D. virginianus*). Presented by Captain Hunter, Steamship "Virginia," Philadelphia.  
 1 Short-eared Owl (*B. palustris*). Presented by Mrs. Spertzel, Philadelphia.  
 12. 1 Woodchuck (*A. monax*). Presented by Jos. S. Hibbs, Tullytown, Bucks Co., Pa.  
 14. 2 Rabbits (*L. cuniculus*). Presented by Dr. J. Cheston Morris, Philadelphia.  
 1 English Thrush. Presented by S. S. Whelen, Philadelphia.  
 15. 2 Beavers (*C. fiber var. canadensis*). Purchased.  
 16. 1 Red-tailed Hawk (*B. borealis*). Presented by Joseph G. Muirheid, Pennington, N. J.  
 1 Pigeon. Presented by Miss Emma Whire, Philadelphia.  
 17. 1 Sparrow Hawk (*F. sparverius*). Presented by L. Schneider, Philadelphia.

- May 19. 8 Striped Gophers (*S. tridecem-lineatus*). Born in Garden.  
 22. 1 Reed Bird (*D. oryzivorus*). Presented by Lillie W. Hutchinson, Philadelphia.  
 23. 9 Striped Gophers (*S. tridecem-lineatus*). Presented.  
 24. 17 Macaque Monkeys (*M. cynomolgus*). Purchased.  
     1 Pig-tail Macaque (*M. nemestrinus*). Purchased.  
     1 Rhesus Monkey (*M. erythraeus*). Purchased.  
     1 Bonnet Monkey (*M. radiatus*). Purchased.  
     7 Entellus Monkeys (*S. entellus*). Purchased.  
 29. 1 Maltese Cat. Presented by Paul Conrad, Philadelphia.  
 30. 1 Garter Snake (*E. sirtalis*). Presented by keeper Pavonarius, Zoological Garden.  
     1 Badger (*T. americana*). Purchased.  
     1 Pennant's Parakeet (*P. pennantii*). Purchased.  
     1 Yellow Parrot (*C. luteus*).  
     2 Collared Peccaries (*D. torquatus*). Presented by Captains Wilkie and Reith.  
 31. 1 Red-tailed Hawk (*B. borealis*). Presented by Charles L. Whitney.  
     4 Horned Toads (*P. cornuta*). Presented by M. Goldsmith, Camden, N. J.
- June 1. 1 Brown Capucin (*C. fatuellus*). Presented by Mrs. McAlister, Philadelphia.  
 2. 1 Siren (*S. Lacertina*). Presented by R. H. Harleston, Oakley Station, S. C.  
 4. 2 Two Land Tortoises (*T. elephantopus*). Presented by C. T. Her-  
     ing, Parimaribo, Surinam, Dutch Guiana.  
 5. 1 Common Ferret (*M. Furo*). Presented by Louis J. Merget, Philadelphia.  
     2 Parrakeet Cockatoos (*C. novae-hollandiae*). Born in the Garden.  
 7. 2 Vervet Monkeys (*C. lilandii*), ♂ and ♀. Purchased.  
 8. 1 Llama (*L. peruana*). Born in the Garden.  
     1 White-Eared Parrot (*C. leucotis*). Presented.  
 9. 1 Iguana (*I. tuberculata*). Purchased.  
 10. 2 Barred Owls (*S. nebulosum*). Purchased.  
 13. 2 Virginian Deer (*C. virginianus*). Born in Garden.  
     1 Bald Eagle (*H. leucocephalus*). Presented by Noah James, Philadelphia.  
 14. 4 Prairie Dogs (*C. ludovicianus*). Born in Garden.  
     4 Chequered Tortoises (*C. picta*). Presented by Max Beck, Philadelphia.  
 18. 3 Prairie Dogs (*C. ludovicianus*). Born in Garden.  
     2 Flying Squirrels (*P. volucella*). Presented by John B. Fontaine, Jr., Philadelphia.  
     2 Alligators (*A. mississippiensis*). Presented by Miss Mary H. Morris, Overbrook, Pa.  
 19. 2 Gray Foxes, (*V. virginianus*). Presented J. B. Levis, Philadelphia.  
     1 Gray Fox (*V. virginianus*). Presented by J. W. Barnett, Hillside, Westmoreland Co., Pa.  
 20. 10 Common Seals (*P. vitulina*), 3 ♂ and 7 ♀. Purchased.  
 23. 1 Water Snake (*T. fasciatus*). Presented by P. Peddrick, Phila.  
 24. 1 Virginia Deer (*C. virginianus*). Born in Garden.  
     2 Prairie Dogs (*C. ludovicianus*). Born in Garden.  
 25. 1 Great Horned Owl (*B. virginianus*). Presented by S. Pavonarius, Philadelphia.  
 26. 1 Bactrian Camel (*C. bactrianus*). Born in Garden.

- June 29. 1 Woodchuck (*A. monax*). Presented by J. M. Stoever, Chester, Pa.  
 1 Raccoon (*P. lotor*). Presented by Dr. Huston, Philadelphia.  
 30. 1 Barn Owl (*S. flammea* var. *Americana*). Presented by A. J. Deep, Swedesboro, N. J.  
 2 Alligators (*A. mississippiensis*). Presented by Herb. Bonzano, Phoenixville, Pa.
- July 2. 1 Alligator (*A. mississippiensis*). Presented by Walter H. Levan, Philadelphia.  
 2 Great-horned Owls (*B. virginianus*). Presented by Thomas W. Stuckey, Philadelphia.  
 1 Red-tailed Hawk (*B. borealis*). Presented by M. Worrell, Merion Square, Montgomery Co., Pa.  
 3. 1 Grey Squirrel (*S. carolinensis*). Presented by Miss Plat.  
 5. 1 Brown Thrush (*H. rufus*). Presented by J. V. Haenle.  
 6. 2 Alligators (*A. mississippiensis*). Presented by Master Walter P. Randolph, Philadelphia.  
 7. 1 Water Snake (*T. sipedon*). Presented by Edward S. and Horace H. Smith, Philadelphia.  
 3 Brown Coatis (*N. nasica*). Born in Garden.  
 9. 1 Crow (*C. americanus*). Presented by Wm. N. Famous, Philadelphia.  
 2 Bald Eagles (*H. leucocephalus*). Presented by Fertner Bumer-shine, Philadelphia.  
 10. 3 Common Quail, 1 ♂, 2 ♀ (*C. communis*). Presented by Hon. Martin G. Evarts, Rutland, Vt.  
 11. 1 Collared Peccary (*D. torquatus*).  
 2 Barn Owls (*S. flammea* var. *Americana*). Purchased.  
 12. 1 Sparrow Hawk, ♀ (*F. sparverius*). Presented by O. H. Torbert, Downingtown, Pa.  
 13. 1 White Rat (*M. rattus*). Presented by Charles Lindenmeyer, Philadelphia.  
 2 Kangaroo Rats (*H. rufescens*). Born in Garden.  
 17. 1 White Rat, ♂ (*M. rattus*). Presented by Dr. George W. Sparks, Philadelphia.  
 18. 5 Common Seals (*P. vitulina*). Purchased.  
 1 Chamelion (*A. principalis*).  
 5 Striped Lizards (*C. sex-lineatus*).  
 4 Grey Lizards (*S. undulatus*).  
 1 Brown Lizard (*E. fasciatus*).  
 } Presented by Walter K. Ashmead, Jacksonville, Fla.  
 19. 1 Racer, or Mountain Black Snake (*C. obsoletus*). Presented by C. C. Caldwell, Conowings, Cecil Co., Md.  
 1 Crow (*C. americanus*). Presented by P. F. Harpel, Philadelphia.  
 20. 1 Mud Tortoise (*C. pennsylvanicum*). } Presented by Dr. G. E.  
 1 Snapping Turtle (*C. serpentina*). } Manigault, Charleston, S.C.  
 1 Green Heron (*A. virescens*). Presented by Walter Godfrey, Sea Grove, Cape May, N. J.  
 21. 2 Chicken Tortoises (*C. reticulata*). Presented by E. M. Barnwell, Esq., South Carolina.  
 23. 1 Woodchuck (*A. monax*). Presented by Geo. Hambrecht, Philadelphia.  
 1 Swift Fox (*V. velox*). Presented by Lloyd L. Smith, Philadelphia.  
 24. 1 Red-tailed Hawk (*B. borealis*). Presented by William Thompson, Camden, N. J.  
 25. 1 Woodchuck (*A. monax*). Presented by Dr. M. A. Dunney, Cecilton, Cecil Co., Md.

- July 26. 1 Virginia Deer (*C. virginianus*). Presented by John Randolph, Philadelphia.
30. 1 White Ibis (*I. alba*). Purchased.
- 3 Striped Lizards (*C. sex-lineatus*). } Presented by  
 1 Brown Lizard (*E. fasciatus*). } W. K. Ashmead,  
 3 Chameleons (*A. principalis*). } Jacksonville,  
 13 Grey Lizards (*S. undulatus*). } Fla.
31. 1 Pig-tailed Macaque (*M. nemistrinus*). Born in Garden.
- 1 Green Heron (*A. virescens*). Presented by Louis Dickel, Philadelphia.
- 1 Moccasin (*A. piscivorus*). Purchased.
- Aug. 1. 1 Great-horned Owl (*B. virginianus*). Presented by John Krider, Philadelphia.
4. 1 American Crocodile (*C. americanus*). Presented by W. G. Boulton, Philadelphia.
- 1 Snowy Owl (*N. nivea*). Presented by Joseph Sholl, Burlington, N. J.
6. 2 Cooper's Hawks (*A. cooperi*). Purchased.
8. 1 Mountain Black Snake (*C. obsoletus*). Presented by Amos Gavit, Philadelphia.
8. 1 Cuban Tree Boa (*E. angulifer*). Presented by E. F. Cabada, Philadelphia.
9. 3 Mexican Dogs. Presented by Dr. Merrill, U. S. A., Ft. Brown, Texas.
12. 1 Savannah Deer (*C. savannarum*). Born in Garden.
14. 1 Loggerhead Turtle, (*T. caouana*). Presented by H. W. Workman, Philadelphia.
- 1 Six-banded Armadillo (*D. sex-cinctus*). Purchased.
15. 1 Raccoon (*P. lotor*). Presented by Lewis F. Green, Media, Pa.
- 6 Gillespie's Hair Seals (*Z. gillespii*). Purchased.
16. 1 White Rat (*M. rattus*). Presented by Chas. Roberts, Phila.
- 3 Copperheads (*A. contortrix*).
18. 2 Black-backed Gulls (*L. marinus*). Presented by T. Wistar Brown, Jr.
20. 8 Water Moccasins (*A. piscivorus*). }  
 5 Black Snakes (*B. constrictor*). } Purchased.  
 2 Glass Snakes (*O. ventralis*).
22. 1 Green Snake (*C. vernalis*). Presented by W. U. Billau, Philadelphia.
23. 1 Night Heron (*N. gardenis*). Presented by Mrs. Minna Johnson, Philadelphia.
- 1 Meadow Lark (*S. magna*). Presented by Mrs. E. M. Wright, Philadelphia.
27. 2 Gray Parrots (*P. erythacus*). Purchased.
29. 1 Night Heron (*N. gardeni*). Presented by John B. Wall, Coopersville, Philadelphia.
- 2 Gopher Tortoises (*T. carolina*). Presented by Dr. Manigault, Charleston, S. C.
30. 1 Alligator (*A. mississippiensis*). Presented by Cheston Ambler, Philadelphia.
31. 1 Great-horned Owl (*B. virginianus*). Presented by Amos Gavit, Philadelphia.
- Sept. 1. 1 Llama (*peruana*). Born in Garden.
- 1 Diamond Rattlesnake (*C. adamantus*).
- 1 Chicken Snake (*O. geterlus*). }  
 1 Black Snake (*B. constrictor*). } Purchased.  
 1 Glass Snake (*O. ventralis*).

- Sept. 3. 2 Alligators (*A. mississippiensis*). Purchased.
4. 23 Gray Lizards (*S. undulatus*).  
 7 Chameleons (*A. principalis*).  
 1 Striped Lizard (*E. fasciatus*).  
 1 Whip Snake (*B. flagelliformis*).  
 1 Chicken Snake (*C. quadrivittatus*).  
 1 Green Snake (*C. vernalis*).  
 1 Glass Snake (*O. ventralis*). } Purchased.
7. 1 Raccoon (*P. lotor*). Presented by H. E. Taylor, Philadelphia.  
 1 Gray Fox (*V. virginianus*). Presented by W. P. Taylor, Philadelphia.
- 3 Canary Birds (*S. canarius*). Presented by James Skeley, Philadelphia.
8. 2 Laughing Gulls (*L. attricilla*). Presented by Henry J. Snyder, Philadelphia.
10. 1 Woodchuck (*A. monax*). Presented by Andrew Sraub, Philadelphia.  
 24 Gray Lizards (*S. undulatus*).  
 14 Chameleons (*A. principalis*). } Purchased.
- 1 Raccoon (*P. Lotor*). Presented by Mrs. A. E. Bommersheim, Philadelphia.
11. 2 Opossums (*D. virginiana*). Presented by the Masters Wagner, Germantown.
12. 2 Moccasins (*A. piscivorus*).  
 - 1 Garter Snake (*E. sirtalis subs. ordinata*).  
 1 Rainbow Snake (*A. erythrogrammus*).  
 1 Chicken Snake (*C. quadrivittatus*).  
 1 Ground Rattlesnake (*C. miltarius*). } Purchased.
13. 1 Rabbit (*L. cuniculus*). Presented by Mary Taylor, Philadelphia.  
 2 Swift Foxes (*V. velox*). Presented by McConnell & Bro., Kittinganng, Pa.
14. 1 Grey Fox (*V. virginianus*). Presented by John H. Brearly, Philadelphia.
15. 1 Horned Toad (*P. cornuta*). Presented by M. Goldsmith, Camden, N. J.
16. 4 Leopards (*Felis pardus*). Born in Garden.
19. 1 Great-horned Owl (*B. virginianus*). Presented by Edwin J. Howlett, Philadelphia.
20. 2 Brown Lizards (*E. fasciatus*).  
 1 Chicken Snake (*C. quadrivittatus*).  
 1 Corn Snake (*C. guttatus*).  
 1 Green Snake (*H. vernalis*). } Presented by W. K. Ashmead, Jacksonville, Fla.  
 2 Banded Rattlesnakes (*C. durissus*). Presented by J. W. Le Maistre, Philadelphia.
22. 1 Common Crow (*C. americanus*). Presented by T. E. Bacon, Philadelphia.
27. 1 Robin (*T. migratorius*). Presented by T. W. Roberts, Philadelphia.  
 1 Garter Snake (*E. Sirtalis*). Presented by Miss Carrie A. Corlies, Philadelphia.
29. 2 White Rabbits (*L. cuniculus*). Presented by B. Lippincott, Philadelphia.  
 1 Common Red Squirrel (*S. hudsonius*). Presented by George Vaux, Jr., Philadelphia.  
 2 Opossums (*D. virginianus*). Presented by the Masters Wagner, Germantown.

- Sept. 29. 3 Barn Owls (*S. flammea* var. *am.*) Purchased.  
 30. 1 Yellow-billed Cuckoo (*C. americanus*). Presented by Henry Sargent, Philadelphia.
- Oct. 3. 3 Salamanders (*S. bilineata*). } Presented by Miss S. P. Monks,  
 1 Salamander (*S. ruber*). } Cold Spring, N. Y.  
 4. 1 Pine Snake (*P. melanoleucus*). Purchased.  
 1 Black Snake (*B. constrictor*). Presented by F. W. Stiveson, Kittanning, Pa.  
 7. 4 Prong-horned Antelopes, 2♂, 2♀ (*A. americana*). Purchased.  
 8. 3 Yemen Sheep. Presented by G. W. Bond, Boston, Mass.  
 1 Beaver (*C. fiber* var. *canadensis*). Born in Garden.  
 10. 1 Banded Rattlesnake (*C. Duriasis*). Presented by J. A. Graves, Delaware Water Gap, Pa.  
 11. 1 Carolina Rail (*P. Carolina*). Presented by Isaac W. Worrell, Philadelphia.  
 12. 1 Alligator (*A. Mississippiensis*). Presented by Mrs. Whiteman, Christiana, Del.  
 13. 1 Pinnated Grouse (*C. cupido*). Presented by Capt. A. A. Clay, Wilcox, Pa.  
 1 Alligator (*A. mississippiensis*). Presented by J. E. Zeublin, Philadelphia.  
 1 Common Iguana (*I. tuberculata*). Presented by Capt. Wiltbank, Bark "Spectator."  
 14. 1 Short-eared Owl (*B. palustris*). Presented.  
 16. 1 Red Fox (*V. fulvus*). Presented by John Stiley, Philadelphia.  
 18. 1 Naked-necked Iguana (*I. delicatissima*). Presented by Thomas Hooper, Philadelphia.  
 1 Java Sparrow (*P. oryzivora*). Presented by Mrs. M. P. Angney, Philadelphia.  
 19. 1 Zebu ♂ (*B. indicus*). Presented by the Brooklyn, N. Y. Park Commission.  
 20. 1 Water Snake (*T. Sipedon*).  
 1 Hog-nosed Snake (*H. platyrhinos*). Presented by Lewis W. Sharpe, Hammononton, N. J.  
 22. 1 Opossum (*D. virginianus*).  
 1 Deer. Presented.  
 23. 3 Arctic Foxes (*V. lagopus*). Purchased.  
 24. 1 Sparrow Hawk (*F. sparverius*).  
 28. 1 Golden Eagle (*A. haliaetus*). Presented by Isaac W. Worrell, Philadelphia.  
 30. 1 Little Black-headed Duck (*F. affinis*). Presented by George De Haven, Jr., Philadelphia.  
 1 Great-horned Owl (*B. virginianus*). Presented by C. H. Townsend, Beatty, Westmoreland Co., Pa.
- Nov. 1. 3 Ring Doves (*T. risorius*). Presented by Mrs. C. A. Miller, Chestnut Hill, Pa.  
 4. 1 Kangaroo Rat (*H. rufescens*). Born in Garden.  
 5. 3 Common Marmosets, 2♂, 1♀ (*H. jacchus*). Purchased.  
 8. 1 Gray Squirrel (*S. carolinensis*). Presented by John Wagner, Philadelphia.  
 9. 1 Water Snake (*T. sipedon*). Presented by Frank Welsh, Philadelphia.  
 2 Opossums (*D. virginianus*). Presented by Miss Mary H. Morris, Overbrook, Pa.  
 10. 1 Bald Eagle (*H. leucocephalus*). Presented by W. S. Strong, New Brunswick, N. J.



- Nov. 15. 2 Cardinals (*P. cucullata*).  
 3 Weaver Birds (*C. progne*).  
 4 Cut-throat Finches (*A. fasciata*).  
 4 Nonpareils (*C. ciris*).  
 4 Other Birds. } Presented by E. F. Cabada, Phila.
- 2 Green Finches (*L. chloris*).  
 1 Mountain Finch (*F. montifringilla*).  
 1 Ground Dove (*C. passerina*).  
 1 Java Sparrow (*P. oryzivora*).  
 1 Zebra Finch (*E. subflava*).  
 1 Bull Finch (*O. rubicilla*).  
 1 Linnet (*L. cannabina*).  
 2 Cuban Trogons (*P. temminurus*).  
 1 Falcon,  
 1 Green Pigeon, } Presented by E. F. Cabada, Phila.
- 1 Squirrel Monkey (*S. sciurea*). Purchased.  
 3 Painted Terrapin (*C. picta*). Presented by Jonathan Hugill, Camden, N. J.
17. 1 Gray Squirrel (*S. carolinensis*). Presented by Messrs. S. & J. Wagner, Germantown.  
 1 Alligator (*A. mississippiensis*). Presented by C. Knappes, Philadelphia.
19. 1 Red and Yellow Macaw (*A. chloroptera*). Presented by J. B. Mears, Milestown, Philadelphia.
20. 1 Duck Hawk (*F. peregrinus*). Presented by Captain Harris, S. S. Pennsylvania.
21. 1 Opossum (*D. virginianus*). Presented by Otto Byer, Phila.
25. 1 Yemen Sheep. Born in Garden.
27. 1 Opossum (*D. virginianus*). Presented by Edward C. Miller, Philadelphia.
28. 1 Brown Capucin (*C. fatuellus*). Purchased.
30. 3 White Rats. Presented by Benjamin Godfrey, Philadelphia.
- Dec. 1. 1 Alexandrine Parakeet (*P. Alexandri*). Purchased.
3. 2 Guinea Pigs (*C. caprea*). Presented by Harry and Annie Hartman, Philadelphia.
8. 1 Brown Snake (*S. occipito-maculata*). Presented by Foster H. Biggs, Hammononton, N. J.
10. 2 Alligators (*A. mississippiensis*). Presented by Messrs. Schwarz and Graf, Philadelphia.
15. 1 Broad-winged Buzzard (*B. pennsylvanicum*). Presented by Pulaski Fondersmith, Downingtown, Pa.
16. 1 Broad-winged Buzzard (*B. pennsylvanicum*). Presented by John Pearsall, Philadelphia.
17. 1 Macaque Monkey (*M. cynomolgus*). Presented by Miss Tutt, Philadelphia.
18. 1 Black-eared Marmoset (*H. penicillata*). Presented by Masters Edgar and Oscar Newhouse, Philadelphia.
19. 4 Dingos (*C. dingo*). Born in Garden.
21. 1 Alligator (*A. mississippiensis*). Presented by Edward G. Ogden, Philadelphia.
28. 1 Hawk. Presented by George Gunther, Philadelphia.
30. 1 Red Kangaroo (*M. rufus*). Born in Garden.
- 1878.
- Jan. 18. 2 Chinese Geese (*A. cygnoides*). Presented by David Taggart, Northumberland, Pa.
19. 2 Common Marmosets (*H. jacchus*). Presented by Giles Lambson, Newcastle, Del.

- Jan. 20. 1 Barn Owl (*S. flammea* var. *americana*.) Presented by C. P. Ferry, Philadelphia.
22. 1 Barn Owl (*S. flammea* var. *americana*). Presented by Robert Miller, Chester, Pa.
26. 1 Opossum (*D. Virginianus*). Presented by Captain Chasteau, Fairmount Park Guard, Philadelphia.
27. 1 Red-shouldered Hawk (*B. lineatus*). Presented by C. Ernest Shank, Bryn Mawr, Pa.
26. 1 Opossum (*D. virginianus*). Presented by N. Whittaker and W. Ferguson, Philadelphia.
28. 1 Opossum (*D. virginianus*). Presented by Wm. McGaughran, Philadelphia.
- Feb. 6. 1 Eland, ♀ (*O. canna*). Purchased.
11. 1 Siren (*S. lacertina*). Presented by Dr. G. E. Manigault, Charleston, S. C.
11. 1 Red-shouldered Hawk (*B. lineatus*). Presented by Jos. Shank, Bryn Mawr, Pa.
14. 1 Bald Eagle (*H. leucocephalus*). Presented by Geo. F. Tyler, Philadelphia.
17. 2 Rough-legged Buzzards (*A. lagopus*). Purchased.
18. 2 White Rabbits (*L. cuniculus*). Presented by W. L. Bloodgood, Philadelphia.
22. 4 Hybrid Fowls. Presented by David Taggart, Northumberland, Penna.
23. 1 White Rabbit (*L. cuniculus*). Presented by H. C. Eggleston, Philadelphia.
25. 8 Dingos (*C. dingo*). Born in Garden.

